

GILA RIVER BASIN

09498400 PINAL CREEK AT INSPIRATION DAM, NEAR GLOBE, AZ

LOCATION--Lat 33°34'23", long 110°54'02", in NE_{1/4}NW_{1/4}SE_{1/4} sec. 26, T.3 N., R.14 E., Gila County, Hydrologic Unit 15060103, in Tonto National Forest, on right bank 7 ft upstream from Inspiration Dam, 3.8 mi upstream from mouth, and 14 mi northwest of Globe.

DRAINAGE AREA--195 mi², of which about 33 mi² is partly or entirely noncontributing due to mining operations (1988).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD--July 1980 to current year.

GAGE--Water-stage recorder. Elevation of gage is 2,740 ft above sea level, from topographic map. Prior to Feb. 12, 1991, at datum 1.0 ft higher.

REMARKS--No estimated daily discharge. Records fair. Since Nov. 20, 1999, base flows may be affected by discharges from a ground-water treatment plant, located about 5 mi upstream from the gage.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 5,700 ft³/s Jan. 11, 1993, gage height, 8.50 ft, on basis of slope-area measurement of peak flow; minimum daily, 0.64 ft³/s July 1, 1999.

EXTREMES FOR CURRENT YEAR--Peak discharges greater than base discharge of 200 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Aug. 27	0005	985	3.69	Sept. 9	0255	*2,100	*4.92
Aug. 28	1815	1,190	3.92	Sept. 9	2000	615	3.29
Sept. 7	1855	666	3.34				

Minimum daily discharge, 0.73 ft³/s July 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	2.9	3.5	3.7	4.3	5.2	4.0	3.3	1.1	1.2	1.2	2.8
2	3.0	2.9	3.5	3.5	4.2	4.7	3.8	3.3	1.1	1.1	1.0	2.5
3	3.0	2.7	3.5	3.7	4.2	4.6	3.9	3.3	1.3	1.2	0.93	2.6
4	3.2	2.8	3.5	3.9	4.0	4.6	3.9	3.3	1.4	0.86	0.91	3.0
5	3.0	2.9	3.4	3.8	4.3	4.4	3.8	3.2	1.3	0.86	0.88	2.9
6	3.1	2.8	3.6	3.5	4.9	4.5	3.9	3.1	1.2	0.94	0.85	2.8
7	3.3	2.7	3.6	3.8	4.9	4.5	3.9	2.7	1.1	1.0	0.93	45
8	3.2	3.1	3.5	4.7	5.3	4.3	3.6	2.6	1.1	1.1	1.0	5.4
9	2.8	3.1	3.4	4.3	5.1	4.3	3.5	2.5	1.2	1.1	0.94	367
10	3.0	2.8	3.4	4.1	4.7	4.4	3.5	3.3	1.6	1.0	0.96	11
11	2.8	2.9	3.6	4.1	4.5	4.7	3.5	2.1	1.4	1.0	0.89	5.4
12	2.8	3.0	3.7	4.1	4.5	4.2	3.5	2.0	1.5	0.92	1.1	4.3
13	2.5	3.1	3.6	4.0	5.0	5.0	3.4	2.2	1.5	1.1	1.4	3.9
14	2.6	3.2	3.5	4.0	5.1	4.8	3.4	2.5	1.3	1.5	1.4	3.7
15	2.7	3.1	3.5	4.0	4.7	4.2	3.7	2.1	1.1	1.0	0.93	3.5
16	2.9	3.2	3.7	4.1	4.6	4.6	3.7	1.9	1.0	0.90	0.92	3.4
17	2.8	3.3	4.1	4.1	4.5	4.7	3.8	1.7	1.1	0.78	1.0	3.4
18	3.2	3.3	3.8	4.0	4.5	4.7	3.7	1.8	1.1	0.83	1.1	3.3
19	3.2	3.3	3.9	4.0	4.7	4.7	3.8	1.8	1.0	0.89	1.1	3.3
20	3.1	3.3	4.0	4.3	4.5	4.7	3.6	1.7	1.0	0.87	1.1	3.3
21	3.1	3.1	3.5	5.0	4.4	4.6	3.4	1.5	1.2	1.2	1.0	3.4
22	3.0	3.5	3.7	4.1	4.3	4.3	3.2	1.6	1.1	1.6	1.0	3.0
23	3.2	3.5	4.0	4.1	4.4	4.3	3.2	1.6	1.2	0.84	1.0	2.6
24	2.9	3.5	4.0	4.2	4.3	4.1	3.5	1.6	1.1	0.87	1.0	3.1
25	2.8	3.6	4.1	4.1	4.5	4.2	3.2	1.5	1.2	0.73	1.1	3.1
26	2.8	3.6	4.0	4.2	5.4	4.3	3.1	1.4	1.3	0.84	1.5	3.2
27	2.9	3.5	4.3	4.4	4.8	4.1	3.2	1.5	1.4	1.5	81	3.7
28	2.8	3.6	4.3	4.4	5.3	3.9	3.3	1.2	1.4	0.90	65	3.7
29	2.9	3.5	4.5	4.3	---	3.7	2.8	1.1	1.3	0.94	4.6	2.9
30	3.0	4.8	4.2	4.4	---	3.8	3.5	1.1	1.3	0.91	3.5	2.4
31	3.0	---	3.8	4.1	---	3.9	---	1.2	---	1.2	3.3	---
TOTAL	91.7	96.6	116.7	127.0	129.9	137.0	106.3	65.7	36.9	31.68	184.54	513.6
MEAN	2.96	3.22	3.76	4.10	4.64	4.42	3.54	2.12	1.23	1.02	5.95	17.1
MAX	3.3	4.8	4.5	5.0	5.4	5.2	4.0	3.3	1.6	1.6	81	367
MIN	2.5	2.7	3.4	3.5	4.0	3.7	2.8	1.1	1.0	0.73	0.85	2.4
AC-FT	182	192	231	252	258	272	211	130	73	63	366	1020
CFSM	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.03	0.09
IN.	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.01	0.01	0.01	0.04	0.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2003, BY WATER YEAR (WY)

MEAN	7.61	10.6	29.3	27.5	15.2	9.52	7.78	6.09	7.48	8.44	7.89
MAX	38.8	13.0	58.4	440	406	67.3	30.1	19.6	16.2	17.1	28.4
(WY)	1984	2001	1985	1993	1993	1993	1993	1993	1981	1990	2003
MIN	2.56	3.22	3.37	3.20	3.44	3.55	3.46	2.12	1.07	1.02	1.81
(WY)	2000	2003	1999	1999	1999	1999	2003	1999	2003	2002	1989

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1980 - 2003

ANNUAL TOTAL	1558.7	4.27	1637.62	4.49	12.1	84.2	1993
ANNUAL MEAN					3.76	1999	
HIGHEST ANNUAL MEAN							
LOWEST ANNUAL MEAN							
HIGHEST DAILY MEAN	202	Sep 10	367	Sep 9	3300	Jan 11	1993
LOWEST DAILY MEAN	1.4	Aug 15	0.73	Jul 25	0.64	Jul 1	1999
ANNUAL SEVEN-DAY MINIMUM	1.6	Aug 30	0.92	Aug 3	0.72	Jun 25	1999
ANNUAL RUNOFF (AC-FT)	3090		3250		8780		
ANNUAL RUNOFF (CFSM)	0.022		0.023		0.062		
ANNUAL RUNOFF (INCHES)	0.30		0.31		0.84		
10 PERCENT EXCEEDS	6.0		4.6		12		
50 PERCENT EXCEEDS	3.5		3.3		7.0		
90 PERCENT EXCEEDS	1.8		1.0		3.6		